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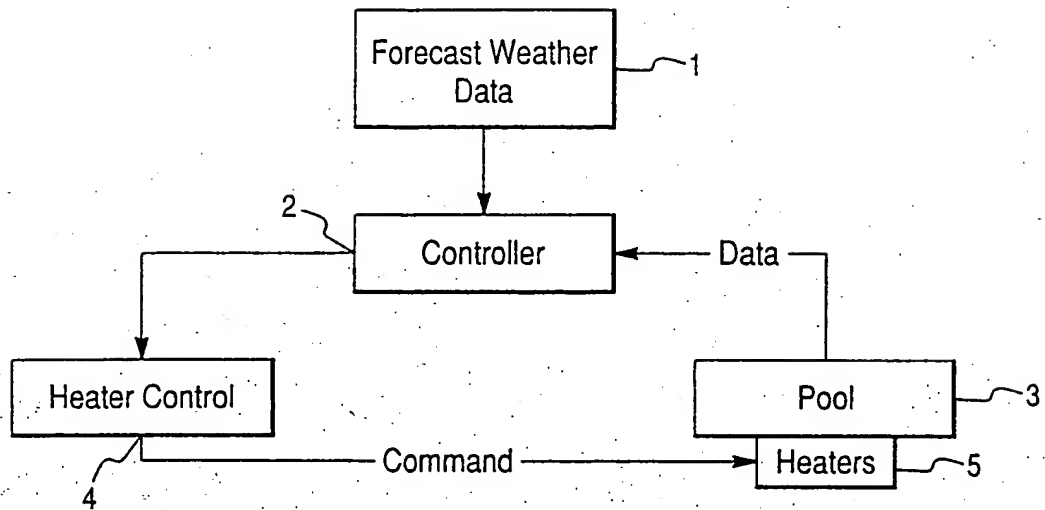
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Fig. 1





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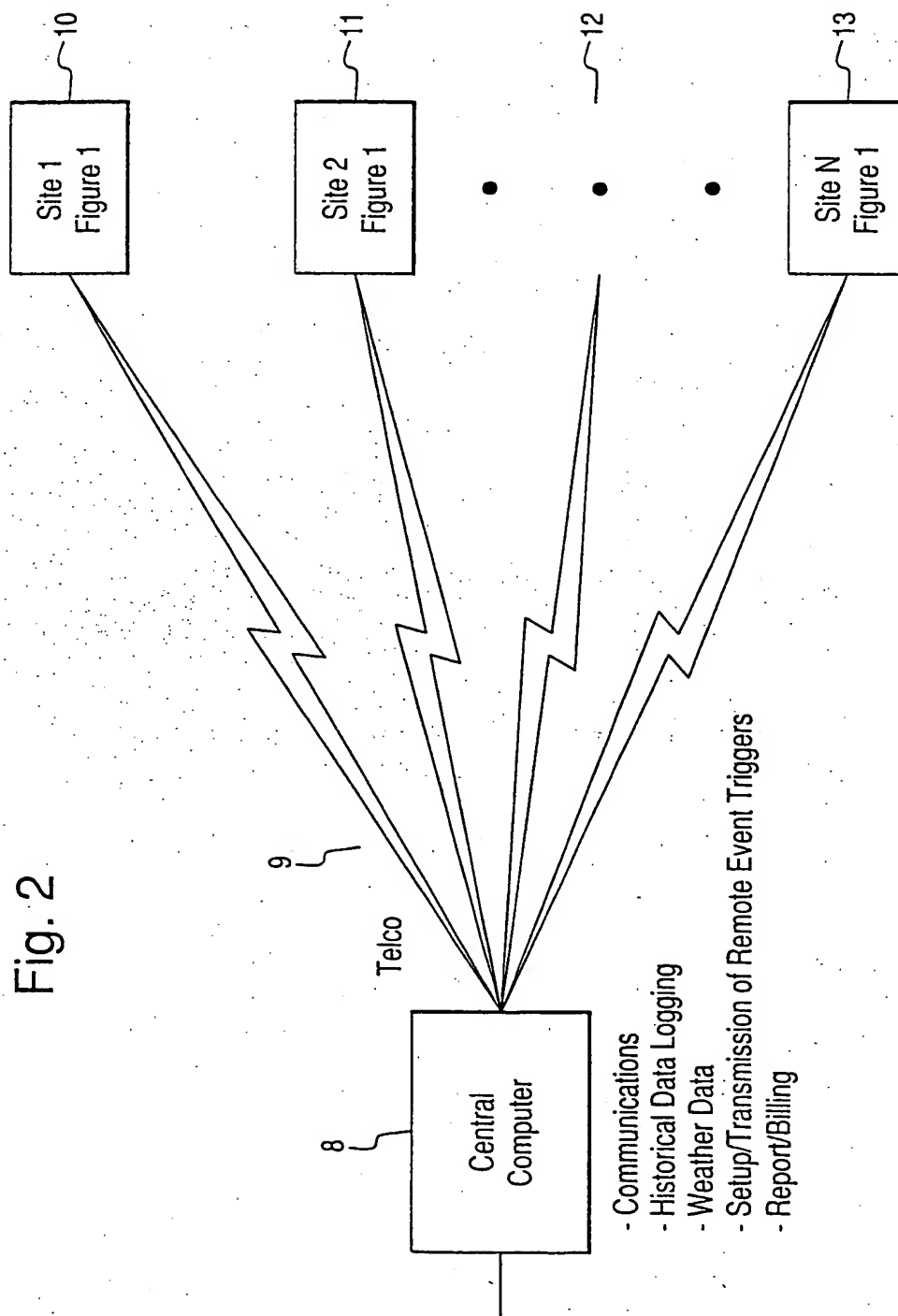


Fig. 3

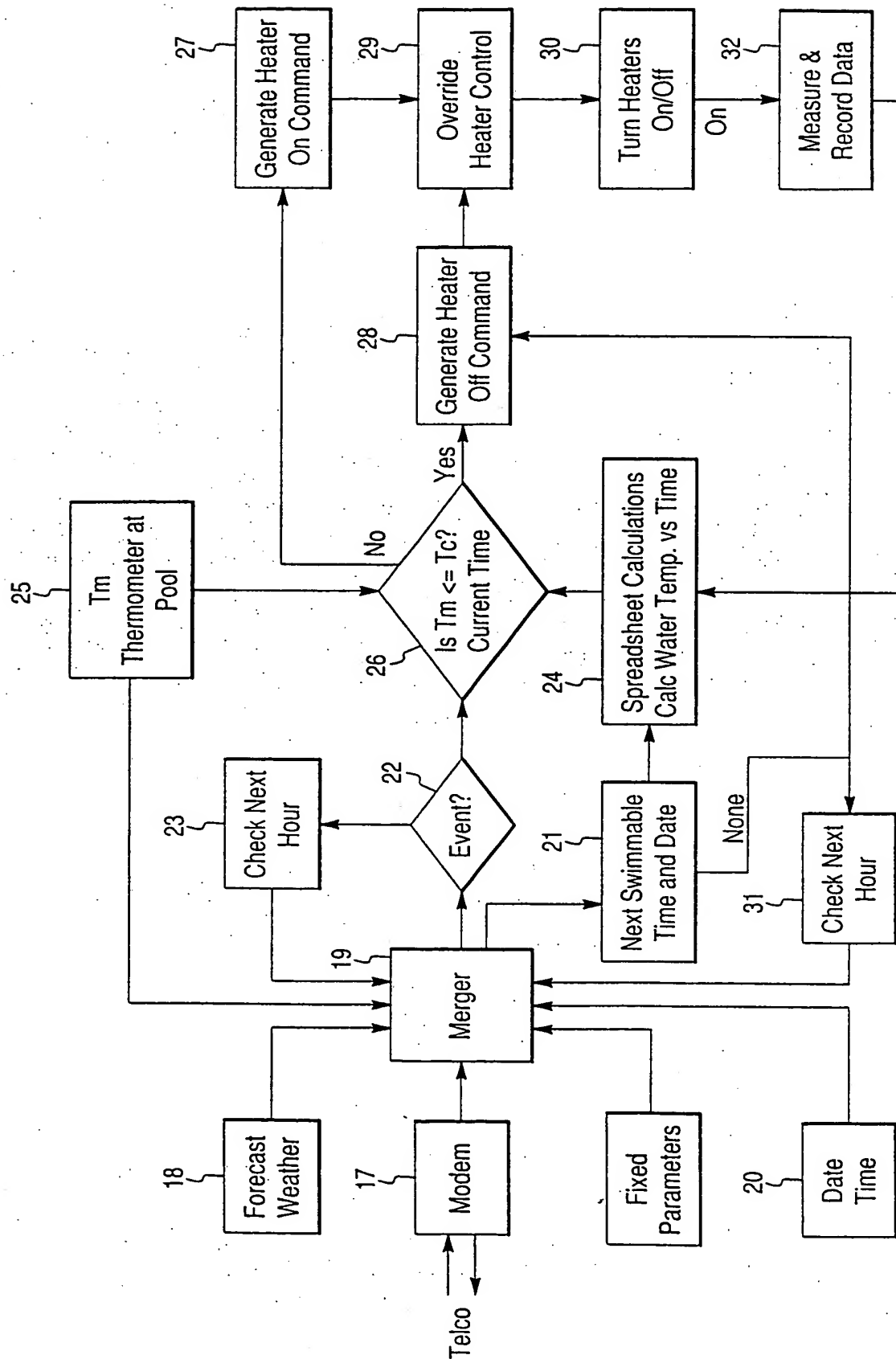


Fig. 4

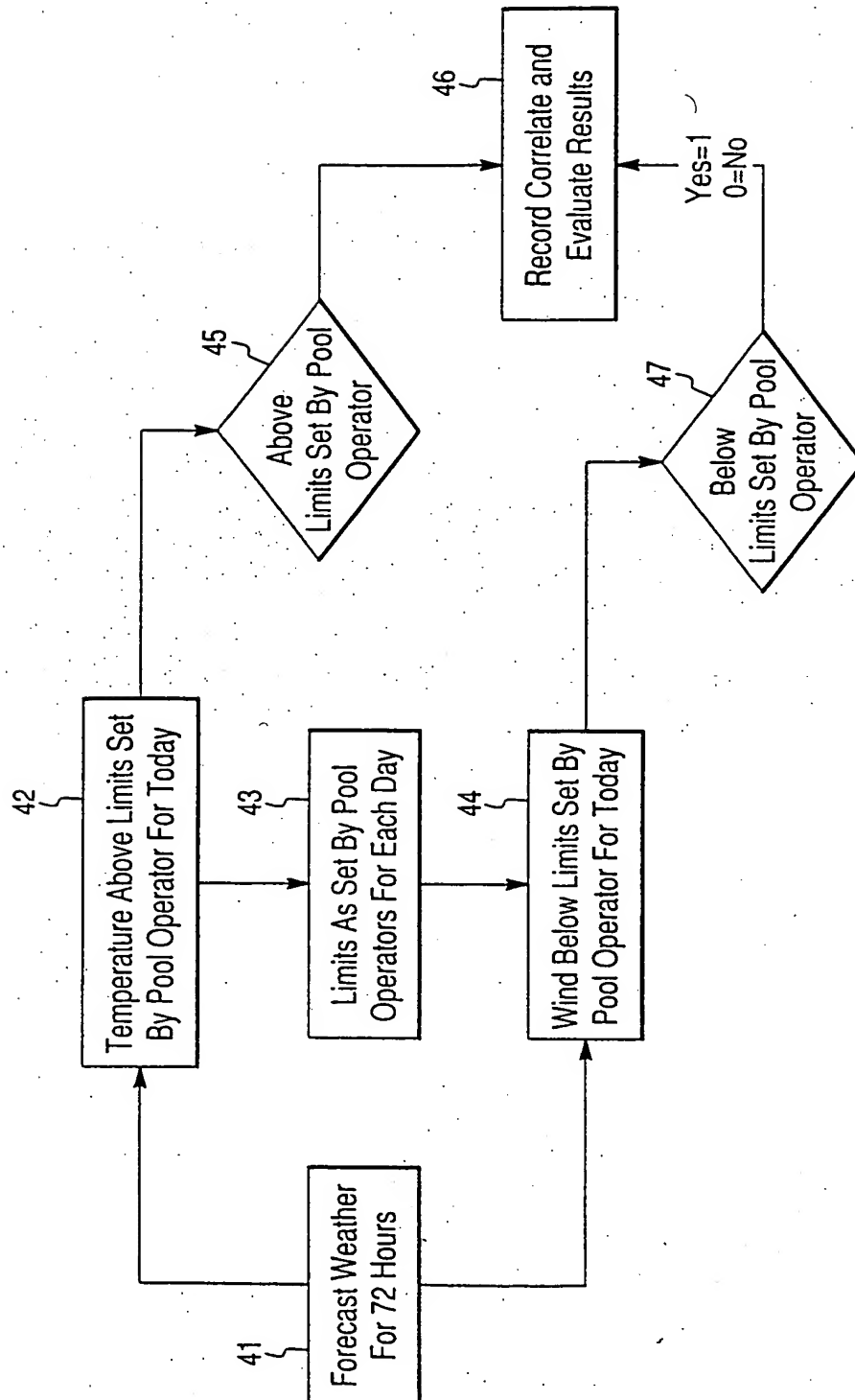
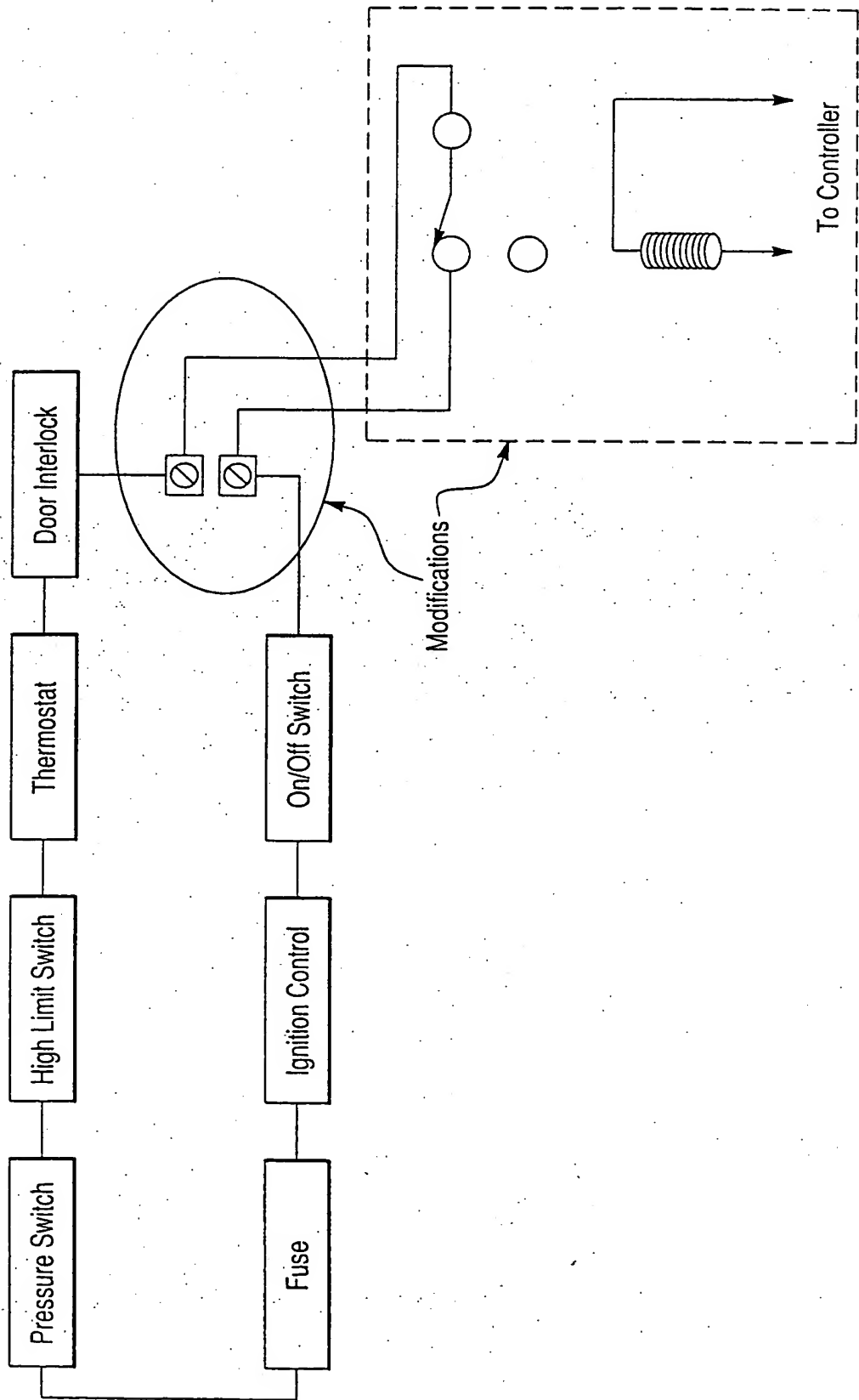


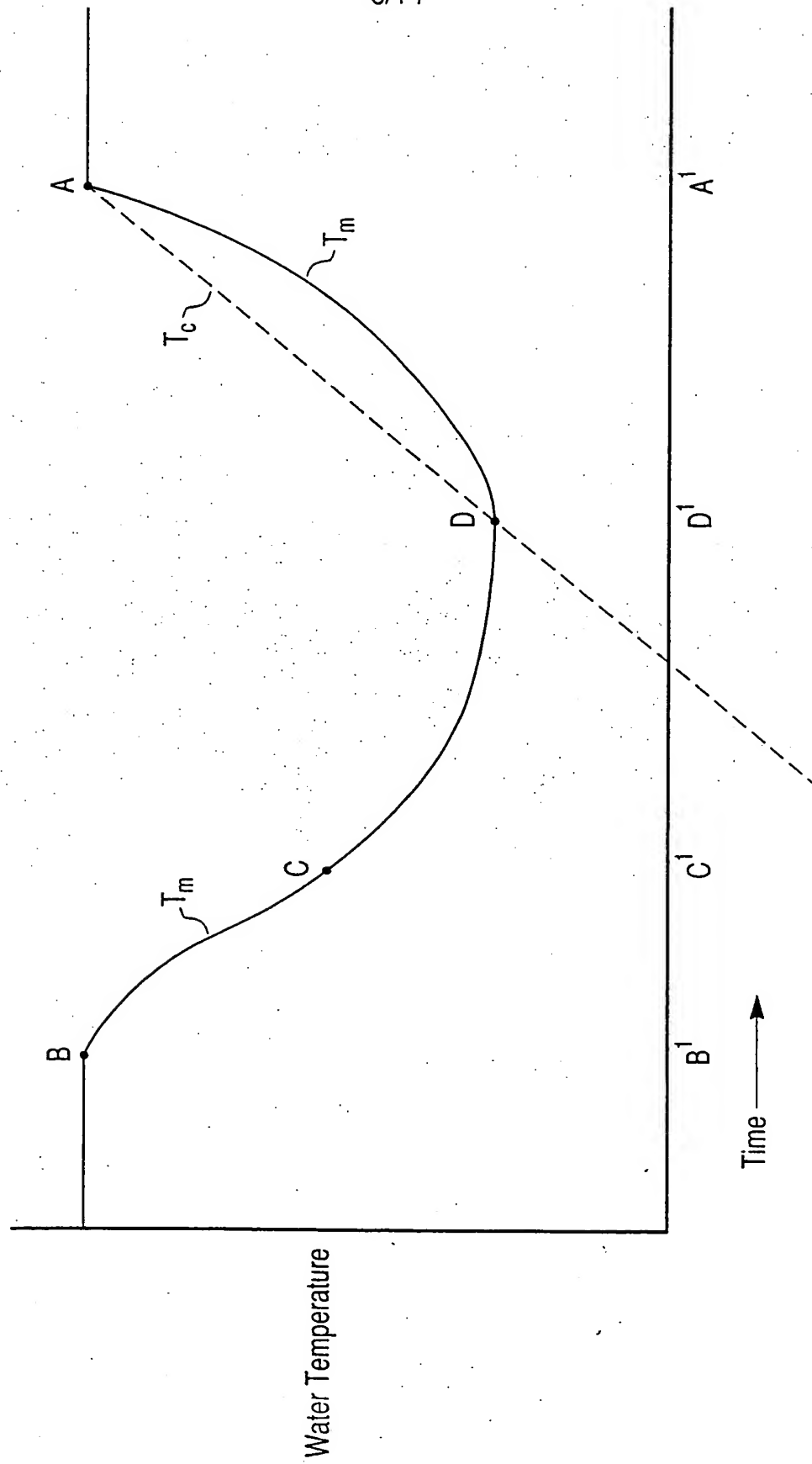
Fig. 5





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Fig. 6





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Fig. 7D

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	sh7														
2	Finalhov 19														
3															
4	WBAB No.	12842													
5															
6															
7		Tilt °	*317.2	Sunrise 24hr Clock	Sunset 24hr Clock	Hours	Btu/F ² /hr	Ap	Monthly Shade Factor	Screen Room Factor	Daily Rain Factor	Daily Clear Factor	Qs Btu/s/hr	lbs H ₂ O	ΔTs [°F]
8	Month	kWh/m ² /day	Btu/F ² /day												
9	Jan	3.2	1015	7 19	19 19	12	85	2400	0.9	1	1	0.88	160,782	823,455	0.20
10	Feb	4.0	1269	7 19	19 19	12	106	2400	0.9	1			0	823,455	0.00
11	Mar	5.1	1618	7 19	19 19	12	135	2400	0.9	1			0	823,455	0.00
12	Apr	6.2	1967	7 19	19 19	12	164	2400	0.9	1			0	823,455	0.00
13	May	6.4	2030	7 19	19 19	12	169	2400	0.9	1			0	823,455	0.00
14	Jun	6.1	1935	7 19	19 19	12	161	2400	0.9	1			0	823,455	0.00
15	Jul	5.8	1840	7 19	19 19	12	153	2400	0.9	1			0	823,455	0.00
16	Aug	5.5	1745	7 19	19 19	12	145	2400	0.9	1			0	823,455	0.00
17	Sep	4.9	1554	7 19	19 19	12	130	2400	0.9	1			0	823,455	0.00
18	Nov	4.4	1396	7 19	19 19	12	116	2400	0.9	1			0	823,455	0.00
19	Oct	3.6	1142	7 19	19 19	12	95	2400	0.9	1			0	823,455	0.00
20	Dec	3.1	983	7 19	19 19	12	82	2400	0.9	1			0	823,455	0.00



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Fig. 7E

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Wx		Rise	Set		Open hr	9:00														
2	1/20/10	Sun	Hours	Hours		Closed hr	21:00														
3	Final Nov 19		7	19		# hrs	12														
4																					
5						Wmfl															
6																					
7	Hour	Day	Time	Sch. open	Vwfl [MPH]	[DEG] mag.	Ta [°F]	Rha [%]	Tdp [°F]	Rain [%]	Vwfl [MPH]	Ta [°F]	Rain [%]	Vwfl Limit [MPH]	Sch. Logic	Wind Logic	Temp. Logic	D Rain Logic	E ABCD		Clear Sky Factor
8	1	1	0:00	No	15	90	55	45	34.1	0					0	0	0	0	0		
9	2	1	1:00	No	15	90	55	45	34.1	0					0	0	0	0	0		
10	3	1	2:00	No	15	90	55	45	34.1	0					0	0	0	0	0		
11	4	1	3:00	No	15	90	55	45	34.1	0					0	0	0	0	0		
12	5	1	4:00	No	9	90	55	45	34.1	0					0	1	0	0	0		
13	6	1	5:00	No	9	90	55	45	34.1	0					0	1	0	0	0		
14	7	1	6:00	No	9	90	55	45	34.1	0					0	1	0	0	0		
15	8	1	7:00	No	15	90	55	45	34.1	0					0	0	0	0	0		1.0
16	9	1	8:00	No	15	90	55	45	34.1	0					0	0	0	0	0		0.8
17	10	1	9:00	Yes	5	90	55	45	34.1	0	5	55	0	10	1	1	1	1	1		0.5
18	11	1	10:00	Yes	5	90	58	45	34.1	0	5	58	0	10	1	1	1	1	1		0.8
19	12	1	11:00	Yes	5	90	61	45	34.1	0	5	61	0	10	1	1	1	1	1		0.8
20	13	1	12:00	Yes	5	90	64	45	34.1	0	5	64	0	10	1	1	1	1	1		0.8
21	14	1	13:00	Yes	5	90	67	45	34.1	0	5	67	0	10	1	1	1	1	1		1.0
22	15	1	14:00	Yes	5	90	70	45	34.1	0	5	70	0	10	1	1	1	1	1		0.8
23	16	1	15:00	Yes	15	90	73	45	34.1	0	15	73	0	10	1	1	1	1	1		0.8
24	17	1	16:00	Yes	8	90	76	45	34.1	0	8	76	0	10	1	1	1	1	1		0.8
25	18	1	17:00	Yes	15	90	79	45	34.1	0	15	79	0	10	1	1	1	1	1		0.8
26	19	1	18:00	Yes	15	90	82	45	34.1	0	15	82	0	10	1	1	1	1	1		0.8
27	20	1	19:00	Yes	15	90	85	45	34.1	0	15	85	0	10	1	1	1	1	1		0.8
28	21	1	20:00	Yes	15	90	82	45	34.1	0	15	82	0	10	1	1	1	1	1		
29	22	1	21:00	No	15	90	79	45	34.1	0					0	0	0	0	0		
30	23	1	22:00	No	15	90	76	45	34.1	0					0	0	0	0	0		
31	24	1	23:00	No	15	90	73	45	34.1	0					0	0	0	0	0		
32										Sum	113	852	0	120							
33										Avg	9	71	0	10						Number	10.50
34										Limit	10	70	80								0.88
35										Logic	1	1	1								



Fig. 7G

	A	B	C	D	E	F	G	H	I
1	Final Nov 19								
2									
3									
4									
5									
6									
7	Time	Time	Wmf	X-Y				Wmf	X-Y
8	00:01 to 06:00	1	22.5	1		12:01 to 18:00	3	22.5	17
9	00:01 to 06:00	1	67.5	2		12:01 to 18:00	3	67.5	18
10	00:01 to 06:00	1	112.5	3		12:01 to 18:00	3	112.5	19
11	00:01 to 06:00	1	157.5	4		12:01 to 18:00	3	157.5	20
12	00:01 to 06:00	1	202.5	5		12:01 to 18:00	3	202.5	21
13	00:01 to 06:00	1	247.5	6		12:01 to 18:00	3	247.5	22
14	00:01 to 06:00	1	292.5	7		12:01 to 18:00	3	292.5	23
15	00:01 to 06:00	1	337.5	8		12:01 to 18:00	3	337.5	24
16									
17	06:01 to 12:00	2	22.5	9		18:01 to 00:00	4	22.5	25
18	06:01 to 12:00	2	67.5	10		18:01 to 00:00	4	67.5	26
19	06:01 to 12:00	2	112.5	11		18:01 to 00:00	4	112.5	27
20	06:01 to 12:00	2	157.5	12		18:01 to 00:00	4	157.5	28
21	06:01 to 12:00	2	202.5	13		18:01 to 00:00	4	202.5	29
22	06:01 to 12:00	2	247.5	14		18:01 to 00:00	4	247.5	30
23	06:01 to 12:00	2	292.5	15		18:01 to 00:00	4	292.5	31
24	06:01 to 12:00	2	337.5	16		18:01 to 00:00	4	337.5	32



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Fig. 7H

	A	B
1	Finalnov 19	
2		
3		
4		
5	Wmf	
6	[DEG]	Vw Matrix
7	mag.	Number
8	22.5	1
9	67.5	2
10	112.5	3
11	157.5	4
12	202.5	5
13	247.5	6
14	292.5	7
15	337.5	8